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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/886,550	06/21/2001	Stephen L. Clark	4524B	8232

23466 7590 05/10/2005

FCI USA INC  
INTELLECTUAL PROPERTY LAW DEPARTMENT  
825 OLD TRAIL ROAD  
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EXAMINER

VU, HIEN D

ART UNIT PAPER NUMBER

2833

DATE MAILED: 05/10/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

**Office Action Summary**

Application No.

09/886,550

Applicant(s)

CLARK ET AL.

Examiner

Hien D. Vu

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 01 February 2005.
- 2a) ☒ This action is **FINAL**.                      2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 65-71 and 74-84 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 65-71 and 74-84 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some \*    c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)  | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)   | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)             |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date <u>2/01/05</u> . | 6) <input type="checkbox"/> Other: _____  |

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1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

2. (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
3. Claims 65-71, 74-84 are rejected under 35 U.S.C. 102(b) as being anticipated by Ito (5,458,426).

This disclosure of Ito (426) provides a complete response to each and every element set forth in the claims. For example, figs. 1-6 show an insulative body 8, a mating surface (not labeled) with an opening therein a top surface (not labeled) is read as the recited second surface, a contact receiving cavity 13 and heat dissipation through hole 16.

As to claim the heat dissipation through hole opening is positioned to receive heat, through connection, from within the contact-receiving cavity.

As to claim 67, an electrical conductive contact 1 positioned in the contact receiving cavity, the contact having two spaced apart contact walls (7, 11).

As to claim 68, at least one of the two space apart contact walls (7, 11) spaced away from adjacent back side walls covered side portions (6, 4) which are read as the recited housing structure bounding, a heat dissipation channel is formed between the at least one of the two spaced apart contact walls and the adjacent having structure as shown in figs. 5 & 6.

As to claim 69, the heat dissipation channel is fluidly connected to the heat dissipation through-hole opening.

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As to claims 70-71, at least one of the two spaced apart contact walls has a lateral positioning element 5 for spacing away from the adjacent housing structure.

As to claims 74-84, the claims have similar features as claims 65-71, therefore they are rejected under the similar rationale.

4. If the applicant disagrees with the Examiner about the at least one of the two spaced apart contact walls being spaced away from adjacent housing structure or the housing wall as discussed above, an alternative rejection of claims 68-71, 74, 79 and 81-82 are applied as follows:

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

6. Claims 68-71, 74, 79 and 81-82 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ito (426) in view of Yagi et al.

As to claims 68, 74 and 81, the at least one of two spaced apart contact walls being spaced from adjacent housing structure or housing wall is not clearly disclosed in Ito. However, Yagi, figs. 2A-2B shows at least one of two spaced apart contact walls (not labeled) of contact 1 being spaced (T1) from adjacent housing structure wall 2. It would have been obvious to one with skill in the art to modify the connector of Ito by forming a space between at least one of spaced apart walls and the adjacent housing

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structure or housing wall, as taught by Yagi, in order to allow a clearance for the terminal in the housing.

As to claims 69-71, 79 and 82, the claims are rejected similar as described above.

7. Applicant's arguments with respect to claims 65-71, 74-84 have been considered but are moot in view of the new ground(s) of rejection.

8. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the date of this final action.

9. Hatagishi and Onodena et al are cited for disclosure of electrical connector terminals.

10. Any inquiry concerning this communication should be directed to Hein D. Vu at telephone number (571) 272-2016.

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Vu/ds

05/03/05

A handwritten signature in cursive script, appearing to read "Hien Vu".

**HIEN VU**  
**PRIMARY EXAMINER**